NOVAPPLE Newsletter

VOLUME VI - NUMBER 8 | NORTHERN VIRGINIA APPLE USERS GROUP | OCTOBER 1986

APPLE INTRODUCES THE APPLE IIGS!!!

Cupertino, California. September 15, 1986. Apple Computer, Inc. today announced a new high-end member of its Apple II family of personal computers. Featuring high resolution color graphics, high performance sound capabilities, fast processing speeds and large memory, the computer offers unprecedented versatility for both educational and productivity applications.

Called the Apple IIGS, the new computer combines the software compatibility and expandability of the Apple IIe with the graphic user interface of the Apple Macintosh. Available in late September, the IIGS will have a suggested retail price of $999. The Apple IIGS is intended to provide expanded capabilities to users in the markets in which the current Apple II line is highly successful --in schools and homes for education and productivity applications.

The ability of the Apple IIGS to run the Apple II family's thousands of existing educational software packages makes it well-suited for families with school-age children. Its expanded memory and new software that employs a more intuitive user interface also make the machine practical for more sophisticated productivity applications.

The Apple IIGS will not make any existing Apple computers obsolete or replace them in major market segments. The IIGS is intended to provide new capabilities for users in many market segments, especially those in which advanced graphics or sound is important.

The Apple IIc is Apple's most attractively priced entry-level machine, especially for home education use. The open-architecture workhorse Apple IIe remains a popular choice of schools and home users who want expandability. The Macintosh line, with its powerful Motorola 68000 microprocessor and large library of business software, is aimed at business markets and universities.

"We took ideas that represent the best of Apple to create a computer ideally suited for the education and home markets," said Delbert W. Yocam, executive vice president and chief operating officer of Apple. "We believe it is a tremendous technical achievement to provide a machine with such advanced features, while still maintaining compatibility with a more than 90 percent of the software programs in the huge Apple II library.

(GOTO PAGE 6)

See You There!!!

CLUB ELECTIONS

OFFICERS OF NOVAPPLE will be elected at the Saturday morning meeting, October 4th. As of press time, candidates were still needed for two offices, those of secretary and Apple // Program Chairman.

Candidates for the other offices are:

President	Dave Harvey
Vice President/ Membership Chairman	Scott Travis
Treasurer	Ina Concaugh
MacIntosh Programs	Tom Lucas

FINALLY A GOOD ONE!

TYPING WELL

By: Ken Clagett

"WHAT ? ? !" You say, "Another typing program !"

Yes, but this one IS, repeat IS, different.

I've had a lot of experience with microcomputer typing programs over the last four or five years, and this one is clearly the best. TYPING WELL is its name, and it has recently been published by LEARNING WELL. The company specializes in educational materials and is featuring "playful software for serious learning," as its slogan and entre' into the computer market. They distribute over forty different programs in versions for Apple, IBM, Commodore and Atari computers. TYPING WELL is currently only available for Apples. I should add here that the 23 page instruction manual indicates the program will run on the * entire * Apple Two family of computers and compatibles ! One drive, 48K, and a monitor are all that are required. A color monitor is recommended for the graphics (which are quite well done) and a printer is optional.

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DISCOUNTS

MACINTOSH CORNER

- SS/DD DISKS, BOX OF 10 .. $14.00 *
- SS/DD DISKS, CASE OF 50 . $60.00 *
- 10 DISK STORAGE BOX $2.50
- 36 DISK STORAGE BOX $9.00
- DS/DD DISKS, BOX OF 10 .. $16.00 *
- DS/DD DISKS, CASE OF 50 . $70.00 *

5¼ INCH DISKETTES & STORAGE

- SS/DD, BOX OF 10 ..... $5.50 *
- SS/DD, PAK OF 25 ..... $13.00 *
- SS/DD, CASE OF 100 ..... $46.00 *
- SS/DD, CARTON OF 500 ... $205.00 *
- 2-NOTCH/DS/DD, BOX OF 10 . $6.50 *
- 2-NOTCH/DS/DD, PAK OF 25 . $15.00 *
- 2-NOTCH/DS/DD, CASE OF 100 . $54.00 *
- 10 DISKETTE CASES ..... $2.25 EACH 5 for $10.00

(SPECIFY COLOR CHOICES: BEIGE, BLACK, BLUE, GREEN, GREY, RED, YELLOW)

- 75 FLIP TOP DISK CASE ... $11.00

PRINTERS

- PANASONIC P1091, 120 CPS . $269.00
- CITIZEN 120D, 120 CPS ... $219.00
- CITIZEN MSP-10, 160 CPS . $299.00
- CITIZEN MSP-15, WIDE $419.00
- SILVER REED 500, LQ $209.00
- PANASONIC P3131, LQ $289.00
- NEC P6, LQ $495.00
- OKIMATE 20 COLOR $209.00

PRINTER ACCESSORIES

- 2400 SHEETS OF PAPER ... $29.00
- STANDARD PARALLEL INTERFACE $49.00
- GRAPHICS PARALLEL INTERFACE CARD $59.00
- MICRO BUFFER IN LINE $89.00
- PRINTER STAND $14.00
- SWITCH BOX, 2 WAY $49.00
- SWITCH BOX, 4 WAY $69.00

DISK DRIVES

- DISTAR $109.00
- CONTROLLER $49.00

MONITORS

- 12-INCH COMPOSITE $79.00
- HI RES COMPOSITE $119.00
- COMPOSITE COLOR $139.00
- RGB COLOR $299.00

MODEMS

- AVATEX 1200 EXT. $99.00
- 1200 EXT. PLUS PHONE ... $169.00
- US ROBOTICS 1200 EXT. .. $219.00
- PROMETHEUS 1200A INT. . $269.00
- US ROBOTICS 2400 ..... $419.00

SOUND & VIDEO DEVICES

- MUSIC SYNTHESIZER .. $149.00
- COMPUTEREYES $109.00

* = NEW PRICE

⊗ = NEW PRODUCT

CHIPS

- EPROMS 2716/2732/2764 .... $4.00
- EPROMS 27128/27256 ..... $7.00
- 64K, SET OF 8 ..... $9.60
- 256K, SET OF 8 ..... $26.40

GENERAL ITEMS

- SURGE PROTECTOR $9.00
- 6-OUTLETS WITH SURGE PROTECT $25.00
- CABLE GENDER CHANGER $9.00
- CABLES (S OR P) $19.00

COMPATIBLE COMPUTERS

- LASER 128 ..... $415.00
- VF PC, APPLE & IBM COMPATIBLE ..... $1080.00 *
- VF PC, IBM COMPATIBLE .. $725.00 *

GAME I/O DEVICES

- CH MACH II JOYSTICK $33.00
- CH MACH III JOYSTICK $39.00
- I/O PORT EXPANDER $25.00
- 9-16 OR 16-9 ADAPTER $9.00

SLOT EXPANSION

- 16K RAM CARD (FOR II+) .. $69.00 *
- 64K RAM CARD (FOR II+) . $159.00
- MULTI-RAM, 64K MEMORY . $119.00
- MULTI RGB, 640K MEMORY $159.00
- 320K MEMORY $149.00
- 512K MEMORY $179.00
- SERIAL INTERFACE CARD .. $49.00 *
- SERI-ALL $99.00
- SLOT 3 CLOCK $65.00
- Z-80 BOARD $39.00
- ACCELERATOR ..... $229.00 ⊗
- EDD 4 PLUS EXACT BIT COPY BD $99.00
- MULTIPLE-SLOT CHASSIS . $149.00
- SINGLE-SLOT EXTENDER .. $29.00
- QUICK-LOADER PROM BD . $149.00
- PROM BURNER $119.00

SPECIAL PERIPHERALS

- COOLING FAN WITH SURGE PROTECT $39.00
- POWER SUPPLY ..... $69.00 ⊗
- SHIFT KEY MOD KIT $8.00
- RF MODULATOR ..... $39.00 *

UPS SHIPPING: $4.00 per order
plus $6.00 per printer or monitor
Computers: $30.00

10% surcharge per 30 days for purchase orders.

APPLE SOFTWARE

- COPY II + ... $29.00
- ESSENTIAL DATA DUPLICATOR $35.00
- PLUSWORKS (RUNS APPLEWORKS ON II+) $19.00
- "WRITE CHOICE" WORD PROCESSOR $39.00
- PRINT SHOP $39.00
- TURBO PASCAL, CP/M $56.00

SPECIALS!!

NEW DISKETTE PRICES:

3½" SS/DD: $14.00 for 10
3½" DS/DD: $16.00 for 10
5¼" SS/DD: $5.50 for 10
5¼" DS/DD: $6.50 for 10

PLEASE NOTE!
PRICES CHANGE OFTEN!
PRICE ON DATE OF PURCHASE APPLIES.

LONG DISTANCE; CALL TOLL-FREE FROM ANY TONE-GENERATING PHONE: DIAL 950-1088; (IF YOU RECEIVE A RECORDING, DIAL 800-446-4462 INSTEAD); WAIT FOR TONE; DIAL 363-1313.

APPLE IIc CORNER

- SECOND DISK DR FOR IIc . $119.00
- HOTLINK TO PARALLEL PRINTER $55.00
- GRAPPLER C $95.00
- PRINTER OR MODEM CABLE $20.00
- DISK DRIVE CABLE ADAPTER $15.00
- 9-16 GAME I/O ADAPTER $9.00
- MULTI-RAM CX, 256K $239.00
- MULTI-RAM CX, 512K $269.00

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STORE HOURS: Monday through Thursday: 12 noon until 8 p.m.
Friday: 12 Noon until 6 p.m./Saturday: 11 a.m. until 5 p.m.

DEVELOPERS LAUNCH NEW PRODUCTS FOR
APPLES NEW IIGS!!

Cupertino, California. September 15, 1986. During its first holiday selling season, Apple Computer's new Apple IIGS personal computer will have the advantage of a substantial selection of software packages and hardware add-ons from independent developers.

The system is designed to run the thousands of productivity, educational and entertainment programs developed for earlier Apple II models, as well as the majority of peripherals and expansion cards designed for those machines. In addition, Apple has worked with over 250 companies during the past six months to foster development on the IIGS. More than 40 new products will be available before Christmas, and Apple anticipates that this intense development pace will continue for several years.

"The release of a new computer at Apple means an enormous effort to involve the third-party development community," said Guy Kawasaki,manager of software products. "We strive for the best balance of backward compatibility and radical new capabilities. The IIGS achieves this better than any system Apple has ever developed.

"The developers who worked with us greatly influenced the final graphic, sound and processing capabilities of the IIGS. Apple has delivered the Apple II that developers dream about," Kawasaki said.

Apple Evangelism Pays Off

Apple's evangelism department, which supplies technical information and support on Apple products to developers, began providing specifications and prototypes of the IIGS to developers in February. During ensuing months, the number of companies working with prototypes grew to over 250.

"The broad capabilities of the IIGS motivated us to contact a wider spectrum of developers than we ever have before," said Neal Amsden, Consumer and Education Market Evangelist. "In addition to historic Apple II developers, companies that had written Macintosh software found that they could develop IIGS versions of those programs with less effort than for other machines.

"Likewise, companies who have never written for any Apple system are attracted by the size of the combined installed bases of Macintosh and the Apple IIGS. Since both systems can utilize similar development tools, companies can achieve significant economies even while creating different versions of products for the Apple II and Macintosh markets, "Amsden said.

A growing number of developers are releasing their new programs in the 3.5-inch format. These 800K disks provide space for larger, more sophisticated programs, and help eliminate cumbersome disk-swapping. In most cases, 5.25-inch disks also are provided in the same package.

Apple IIGS Adopts Apple Standard "Human Interface" for Macintosh-Like Software

Most new software programs feature a graphics user interface with pull-down menus, windows, icons and multiple fonts. The IIGS contains in read-only- memory the "Quick Draw" routines that are similar to the Macintosh. This capability, combined with the IIGS' huge color palette and super high resolution mode, have inspired an array of products that utilize graphics in innovative ways.

-- Free-form painting programs, such as "Paintworks Plus" (Activision), allow the user to create his or her own artwork using the mouse and palettes of colors, shapes and fill-patterns.

-- New structured graphics programs, including "TopDraw" (Styleware) and an updated version of "The Printshop" (Broderbund), manipulate boxes, circles and shapes and provide libraries of color clip-art for creating charts, graphs, fliers, maps--even greeting cards.

-- Entry-level desktop publishing programs, such as "Newsmaker," (Broderbund Software, Inc.) and "PageWorks" (Megahaus Corp.), let the Apple II user lay out professional looking fliers and newsletters and print them on Apple's LaserWriter and ImageWriter II printer.

-- Animation--with graphics and sound that approach professional quality-- is possible on the IIGS using software such as the updated version of "Fantavision" (Broderbund).

-- Educational and entertainment programs also are more appealing and effective because of IIGS graphics. New and revised programs include "Puppy Love" (Tom Snyder Productions), "Explore-a-Story" (D.C. Heath and Co.), and "Silent Service" (MicroProse).

Productivity Tools More Powerful

To augment the large number of existing Apple II productivity packages, developers are introducing new products that leverage the IIGS' 16-bit microprocessor and large internal memory for additional speed and power. Many also incorporate a Macintosh-like interface. New and revised products include "MultiScribe" (Styleware), "Writer's Choice elite" (Activision), "MouseWrite" (Roger

‹GOTO PAGE 4›

IIGS PRODUCTS (FROM PAGE 3)

Wagner Publishing), "WordPerfect" (WordPerfect Corp.), "VIP Professional" (VIP Technology) and others.

Several packages for specialized home and school productivity tasks also will be available immediately for the IIGS including an updated version of "Managing Your Money" (MECA), and a program for classroom administration from Chancery Software Ltd.

Apple IIGS Products Sound-Off

A variety of software packages and add-on devices highlight the sound- generation capabilities of the IIGS, and Apple anticipates the release of many more products that generate or complement sophisticated music and voice sounds. To aid in development, Apple recently released to developers sound tools that allows software to play instrument tones on a note-by-note basis.

Sound products featured in the third-party press kit include: "The ECHO IIb" (Street Electronics) plug-in board for adding speech to software programs; "Talking Text Writer" (Scholastic Software), a program for teaching reading and writing; "Kid's Time II" (Great Wave Software), which consists of two educational programs for teaching music and keyboard skills; four talking educational software packages from First Byte, Inc.; and "RoomMates" speakers (Bose Corporation).

Hardware Developers also Supporting Apple IIGS

A number of well-known developers, including AST Research, Inc., A-Squared, MDIdeas, Inc., Peak Systems, Orange Micro Inc., Applied Engineering, General Computer and ProAPP Inc., are taking advantage of the ports and memory expansion capability of the IIGS and introducing new or revised memory cards, storage subsystems and back-up products.

Two new video digitizers include: A video frame grabber from A-Squared that provides black-and-white and colorization processing, and operates at 20 frames per second; and AST Research, Inc.'s graphics video digitizer which provides real-time color and black-and-white image processing, in addition to special effects features.

Other new hardware products include: a parallel printer interface from Orange Micro Inc. that provides innovative options for printing graphics directly from the IIGS screen; an internal 1200 bps modem from Hayes Microcomputer Products, Inc.; an IBM PC-like keyboard from DataDesk International; a graphics tablet from Kurta Corporation; and a stereo card from MDIdeas, Inc.

Apple IIGS Passes Compatibility Test

In addition to this selection of new third-party products, IIGS purchasers also will be able to choose from the thousands of existing Apple II software packages and peripherals. This will particularly benefit those who upgrade to the IIGS from older Apple IIs, such as schools which have huge investments in software and peripherals. Consumers, too, will benefit from the design of the IIGS, which contains a microprocessor compatible with the IIe and IIc and nearly the same expansion slots as the IIe.

Apple tested a large number of the best-selling Apple II software packages and found that more than 90 percent of them operate normally on the IIGS. Many run faster due to the system's increased clock speed. Some programs have only minor display or documentation differences. Programs that do not operate correctly fall primarily into two categories:

-- Communications software which requires an Apple II Super Serial Card will not operate normally with a modem plugged into the built-in serial port. The IIGS contains a different communications chip (the same chip that is in the Macintosh) than is found on the card in order to provide AppleTalk protocols, a wider selection of baud rates and other enhancements.

-- Developers of most major communications software packages are revising their products to work with the new chip. A revision of Apple's own Access II program will be available in October. Users who already own a Super Serial Card may use it in the IIGS with existing software packages. Modems are not affected.

-- Programs that were developed outside of Apple's programming guidelines may not work correctly on the IIGS because of changes in certain slot characteristics. Owners of such programs should check with manufacturers for information on compatibility and upgrades.

The IIGS is compatible with nearly all printers, plotters, modems and disk drives that worked with earlier Apple II computers, as well the majority of peripheral cards.

-- Cards that must be plugged into the auxiliary slot on the IIe, such as many multi-function cards, will not work with the Apple IIGS. However, the IIGS has built-in many of the functions provided by these cards, such as extra RAM, RGB support, 80 column text, accelerated operating speed and a clock.

-- Apple is providing all its authorized dealers a list of tested products and results so they may assist customers in choosing appropriate software and peripherals for the IIGS.

--NoVAG

SCHEDULE OF UPCOMING EVENTS

REGULAR GENERAL MEMBERSHIP MEETINGS

1st Saturday -- Room 110 or 120, Bisdorf Bldg, Alex Campus NoVA CC - 10:00 AM
3rd Wednesday -- Rooms 165-168, Wakefield High School, Chesterfield at Dinwiddie, near Rte. 7 and George Mason Drive - 7:30 PM

Saturday	Oct. 4	10:00 AM	NVCC	ELECTION OF OFFICERS BASIC Programming (PART 4)
Wednesday	Oct. 15	7:30 PM	Wakefield HS	6502 Assembly Language Programming
Saturday	Nov. 1	10:00 AM	NVCC	Survey of Apple Word Processors
Wednesday	Nov. 19	7:30 PM	??? TBD ???	Survey of Apple Games (Part 3)
Saturday	Dec. 6	10:00 AM	NVCC	Christmas Apple: Music & Graphics
Wednesday	Dec. 17	7:30 PM	??? TBD ???	What's Where in your Apple, OR How do I Fix It When It's Broke

HOTLINE

THE NOVAPPLE HOTLINE IS A LIST OF VOLUNTEERS WHO HAVE AGREED TO ANSWER YOUR QUESTIONS BY PHONE. DO NOT CALL AFTER 10PM, PLEASE. PASS UPDATES TO ERNIE PHILIPP IN WRITING OR CALL (H) 379-7198. hotline09/86

SUBJECT	LAST NAME, FIRST	PHONE
1ST CLASS MAIL	THORNBURG, JIM	750-1367
APPLE PIE WP	LAUFER, GABOR	765-4539
APPLESOFT	ANTON, BILL	385-1225
	LAUFER, GABOR	765-4539
	PANKIN, MARK	524-0937
	SPAHN, MARK	378-5031
APPLEWORKS	KRIEGER,BILL	821-1496
	CONCAUGH ,INA	256-3062
	EISEN,CARL	354-4837
	CHEW, RICH	573-0947
	THORNBURG, JIM	750-1367
APPLEWRITER II	ANTON, BILL	385-1225
	HARVEY, DAVE	527-2704
ASCII EXPRESS	HARVEY, DAVE	527-2704
ASSEMBLY LANGUAGE	KRIEGER, BILL	821-1496
	SPAHN, MARK	378-5031
C-LANGUAGE	SPAHN, MARK	378-5031
COMMUNICATIONS,Modems	HARVEY, DAVE	527-2704
	TRAVIS, SCOTT	455-9361
CP/M	SPAHN, MARK	378-5031
D BASE	VELOS, NICK	836-1696
DISK BACKUP	ANTON, BILL	385-1225
	TRAVIS, SCOTT	455-9361
DOS 3.3	SPAHN, MARK	378-5031
	UNGERMAN, MIKE	455-3441
EPSON PRINTER	EISEN,CARL	354-4837
	TRAVIS,SCOTT	455-9361
FORMAT II	HARVEY,DAVE	527-2704
FORTH	HOLDGREIWE, DAN	354-3561
FORTRAN	ANTON, BILL	385-1225
	KRIEGER, BILL	821-1496
	SPAHN, MARK	378-5031
INVESTMENT PGMS/STOCKS	PANKIN, MARK	524-0937
GAMES	LAUFER, GABOR	765-4539
LOCKSMITH	ANTON, BILL	385-1225
MACINTOSH	PANKIN, MARK	524-0937
	LOVE, JOHN	569-2294
MATH/STAT	PANKIN, MARK	524-0937
MULTIPLAN	PHILIPP, ERNIE	379-7198
	BALDWIN,MILES	938-8457
	LUCAS, TOM	321-9593
OPS RES/MGT SCI	PANKIN, MARK	524-0937
PFS:FILE	LUCAS, TOM	321-9593
PFS:REPORT	LUCAS, TOM	321-9593
PRODOS	KRIEGER, BILL	821-1496
PROWRITER PRINTER	KRIEGER, BILL	821-1496
RAMCARDS	TRAVIS, SCOTT	455-9361
SCREENWRITER II	PETRENKO, PETE	321-7332
	LUCAS, TOM	321-9593
SIDER HARD DISK	THORNBURG, JIM	750-1367
SUPERCALC	SPAHN, MARK	378-5031
SUPERTEXT	VELOS, NICK	836-1696
THE ACCOUNTANT	PANKIN, MARK	524-0937
TURBO PASCAL	PHILIPP, ERNIE	379-7198
VISI FILE	FOX, ELLIOT	780-4403
VISICALC	THORNBURG, JIM	768-0356
VISIDEX	LAUFER, GABOR	765-4539
WORDSTAR	SPAHN, MARK	378-5031

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You may leave questions on the Bulletin Board with your name or NOVAPPLE ## as an alternative.

IIGS ANNOUNCED

(FROM PAGE 1)

"The introduction of the Apple IIGS reconfirms our dedication to extending the life cycle of the Apple II line of products far into the future," he said. For current Apple IIe owners, Apple is introducing in the first quarter of 1987 the Apple IIGS Upgrade, a kit that gives a IIe all the performance capabilities of the IIGS. The upgrade path protects IIe owners' existing investments in hardware, software and peripheral devices.

The IIGS features a new Apple product color scheme, called "platinum," which is the color of the new Apple peripherals and will be the new standard color of all future Apple computers.

Inside the Apple IIGS:

Five design criteria were used in the development of the IIGS: enhanced graphics and sound, faster processing, and more memory while retaining software and peripherals compatibility with the Apple II family.

In standard configuration, the Apple IIGS has 256 kilobytes of random-access memory (RAM), 128 kilobytes of read-only memory (ROM) and eight expansion slots.

Built into the system are two serial ports, a jack for head-phones or external speaker, a joystick port, ports for analog red-green-blue (RGB) and composite color video monitors, new Apple DeskTop Bus port for keyboard, mouse and other input devices, and a disk interface for both 5.25-inch and 3.5-inch disk drives.

Like the Macintosh, the IIGS incorporates a communications chip that supports the AppleTalk network, giving the IIGS the potential to print on a LaserWriter printer and connect with other Apple computers. Also like the Macintosh, the Apple IIGS contains in ROM the "Quick Draw" graphics routines which make possible pull-down menus, windows and icons.

Apple II Family Software Compatibility:

Engineers at Apple tested a large number of the best-selling Apple II software programs and over 100 hardware devices to ensure compatibility. The Apple IIGS runs approximately 90 percent of the software and nearly all of the peripherals developed for earlier Apple II computers.

Software packages that do not function normally on the IIGS fall into two primary categories: those that do not conform to Apple programming guidelines and those that require the communications chip found on the Apple Super Serial Card. Many of these programs are being revised by developers.

Communications software which requires an Apple II Super Serial Card will not operate normally with a modem plugged into the built-in serial port. The IIGS contains a different communications chip (the same chip that is in the Macintosh) than is found on the card in order to provide AppleTalk protocols, a wider selection of bits-per-second rates and other enhancements.

Besides testing existing software and hardware, Apple placed more than 250 prototype IIGS machines with developers. More than 40 new products that take advantage of the IIGS computers' new speed, color, sound and memory features will be available during the 1986 Christmas season.

More Speed, Memory:

To bring more power to those who use their personal computers heavily, Apple gave the IIGS faster processing speed and increased memory. These features allow applications to run faster and make possible a graphic user interface. The new 16-bit 65C816 microprocessor makes the IIGS run existing applications nearly three times as fast as other members of the Apple II family.

At the time of introduction, the internal memory of the IIGS is expandable from 256 kilobytes to one megabyte via an expansion card. With the eventual development of additional Apple and third-party expansion cards, the IIGS is ultimately expandable to eight megabytes of RAM.

Seven Display Modes, High-Quality Sound:

The "GS" stands for graphics and sound--two of the strengths of the new machine. Two new high resolution graphics modes make possible software with a graphic interface and animation capabilities. The following graphics modes are available:

New Apple IIGS Graphics Modes:

640 by 200 pixels / palette of 4,096 colors
(4-to-16 colors per scan line)

320 by 200 pixels / palette of 4,096 colors
(16 colors per scan line)

Existing Apple IIe and IIc Graphics Modes:

560 by 192 pixels / monochrome
280 by 192 pixels / 6 colors
140 by 192 pixels / 16 colors
80 by 48 pixels / 16 colors
40 by 48 pixels / 16 colors

(GOTO PAGE 7)

IIGS ANNOUNCED

(FROM PAGE 6)

Besides improved graphics, sound capabilities have also been dramatically enhanced over earlier Apple II's. The IIGS has a 32-oscillator chip that can play up to 15 voices simultaneously for synthesizing both music and human speech. This is achieved through an Ensoniq sound chip with its own 64-kilobyte dedicated RAM. Ensoniq is the same chip used in professional- quality music synthesizers.

IIGS sound is of high enough quality to support software that teaches foreign languages or music composition. Combined with a word processor, the IIGS can be used to help students learn to both read and write. New applications using computer- generated sound also will benefit people with learning or sensory disabilities.

Price and Availability:

The Apple IIGS will be available in limited quantities at authorized Apple dealers in the U.S. beginning Sept. 27, for a suggested retail price of $999 (U.S.). Besides the case containing the central processing unit, the IIGS comes with the built-in ports described previously, a detached 80-key ergonomically curved keyboard that includes an 18-key numeric keypad, and a mouse, which can be plugged into either side of the keyboard. It comes with four manuals: a set-up guide, a 200-page owner's manual, a guide to AppleSoft Basic, and a system disk manual. Also included in the package is a disk containing the ProDOS 16 operating system and utilities and a training disk that provides two hours of hands-on tutoring.

The upgrade kit that gives IIGS capabilities to an Apple IIe will be available from authorized Apple dealers. It will have a suggested retail price of $499.

In addition, Apple is introducing 11 international versions of the IIGS simultaneously to address the more than 80 markets in which Apple sells around the world. These systems feature local-language software, manuals and keyboards specifically designed for the French, German, Italian, Spanish, Dutch and Flemish languages.

A limited edition of the Apple IIGS signed by Apple II designer and Apple Computer, Inc. co-founder Steve Wozniak will be offered to early purchasers of the product at the regular introductory price.

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--NoVA

TYPING WELL

(FROM PAGE 1)

Unlike the "big name" typing programs, this one really was designed for, and tested on, kids as its primary target users. Most typing programs require some discipline and a desire to learn typing such as an adult might have. I've seen children literally in tears from the frustration and pressure provided by other programs and their own parents. Other 'game-based' typing programs encourage "cheating" in order to beat the games offered if the learner is not fast enough with his or her typing responses. The package states that TYPING WELL is recommended for Grades 2 to Adult.

This program, however, places the appropriate Apple keyboard on the screen below both exercises and games and the next keystroke is indicated by a flashing keycap! Initially, two levels of difficulty are provided for learning proper keyboarding and the speed for exercises is automatically increased as the student progresses. Further, the game exercise speed can also be separately adjusted.

The program will keep records for ten different typists right on the program disk and also allows maintaining records on separate disks for classroom use.

As each new letter, number, or punctuation mark is introduced, a pair of hands appear on the screen indicating the correct finger to be used, and where the key actually is. You don't have to even look at the keyboard. As a matter-of-fact you could even tape over the keycaps, that's the way I learned to type many, many years ago.

Well, enough rambling, TYPING WELL has been endorsed by the International Dvorak Federation, was featured in the 1986 Software Showcase at the summer Consumer Electronics Show (CES) in Chicago in June, received a Critics Choice Award for educational programs from "Family Computing," was mentioned along with the "big-2" of typing programs in the May 86 "In-Cider" magazine, and got a very high rating in the July 86 issue of "Family Computing" magazine. In addition, it was written by Ken Davis, a member of NOVAPPLE ! Congratulations Ken.

The program was demonstrated at the May 86 meeting of Washington Apple Pi (that big club up the road),

(GOTO PAGE 9)

from the North San Diego Apple Club

40 TRACK DRIVES WITH APPLE PRODS

by Dennis Doms

[This seemed too good to miss but the left-most character of each line was too faint to xerox well, so I'll apologize in case I make typos re-keying this. From their September 1986 newsletter. --Ed.]

Quality Software's BENEATH APPLE PRODOS by Don Worth and Pieter Lechner is an essential aid for learning the internals of ProDOS, especially given the limitations of Apple's manuals (there, got it in again!). On page 7-26 and 7-27 they discuss patches to the files PRODOS and FILER for version 1.0.1 to enable these programs to use 40 track DISK][-type replacement drives.

Note: In a letter to OPEN APPLE maagazine (page 55), George S[?]ylutki[?] reported a "bug" in the original patch given in BENEATH APPLE DOS. The patch value of "$39" should be "$40" for 40-track drives, else the incorrect number of blocks will be available. The original version of this article contained the same "bug", which is corrected here.].

If you're not aware, the ProDOS source code was designed to be re-assembled in event of changes. This means that the location:data) type patches used for DOS may not work under ProDOS since the locations of routines may change. Most system data is stored in the global pages, which are supposed to stay invariant.

The patches in BENEATH APPLE DOS [sic] were specific to PRODOS version 1.0.1 (version displayed on screen during boot) and FILER version 1.0.1 (version number is displayed on main menu). Due to a problem with ProDOS and the newer Apple drive mechanisms, and the elimination of various bugs, we are now up to version 1.1.1, which may be the staple for a while. The following patches should reproduce the effects of Worth's and Lechner's for the earlier version for PRODOS 1.1.1 and FILER version 1.1 (do this to a COPY of these utilities; never alter an original program file or disk!!):

```
UNLOCK PRODOS
BLOAD PRODOS,A$2000,TSYS
CALL -151
56E3:40
3D0G
BSAVE PRODOS,A$2000,TSYS
LOCK PRODOS
```

(This fixes the block count for the disk driver for 40 tracks.)

```
UNLOCK FILER
BLOAD FILER,A$2000,TSYS
CALL -151
426A:40
79F4:28
3D0G
BSAVE FILER,A$2000,TSYS
LOCK FILER
```

(First value fixes block count, second fixes maximum track value.)

NOTE: Both of these files should be used only in conjunction with 40 track drives. Mark the resulting disks as 40 track only!.)

If you end up looking for these patches yourself, here's the approximate code to look for (examples from ProDOS 1.0.1, to correlate with BENEATH APPLE ProDOS) after BLOADing the "PRODOS" file as above ("PRODOS is copyrighted by Apple Computer, therefore only brief segments are excerpted per current "fair use" restrictions):

PRODOS

```
5200:  A5 46        LDA $46
       A6 47        LDX $47
       8E 56 FB     STX $FB56
       F0 07        BEQ $5210
       CA           DEX
       D0 2A        BNE $5236
       C9 18        CMP #$1(Byte to change is
                                    "18")
```

FILER

```
4239:  60           RTS
       A5 AC        LDA $AC
       8D 98 42     STA $4298
       A5 AA        LDA $AA
       D0 06        BNE $4249
       A9 18        LDA #$1(Byte to change is
       A2 01        LDX #$01          "18")


79EA:  20 07 7A     JSR $7A07
       B0 E2        BCS $79D1
       E6 D1        INC $D1
       A5 D1        LDA $D1
       C9 23        CMP #$2(Byte to change is
                                    "23")
```

Be aware that the code will closely resemble the above segments but may have slight differences, and that the code will probably occur close [to] the above addresses in memory but may be shifted as much as one or two memory pages (more, if radical re-write of ProDOS is done).

--NoVA

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from Apple Computer
and Dave Harvey

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Dave Harvey has volunteered to compile and send in mailing list information for those members who would like to be on such an Apple list. He asks that you contact him in person or on the BBS if you are interested. This special effort on Dave's part is necessary because our membership database does not contain your response to the membership application question, "May we release [your name, address, and phone] to selected vendors?"

--NoVAG

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TYPING WELL (FROM PAGE 7)

and is available for WAP members to review in their library in Bethesda. List price is $49.95 and may be ordered from LEARNING WELL by calling (800) 645-6564. I've seen the program in one discount catalog for about $35, but it may be hard to find at that price because of the marketing effort to schools. (WAP may be putting together a group buy on this program. If you're a member check with them.)

--NoVAG

A Little of This and That

NOTES

taken by Chuck Edmiston

AFTER THE OCTOBER WEDNESDAY NIGHT MEETING, no more meetings will be held at Wakefield High School. Ideas are needed for a new location for Wednesday night meetings.

Please pay your dues PRONTO when notified; new club policy is that this newsletter will be sent for only one month's grace period after dues expire.

Some desire has been expressed for an Appleworks SIG, to meet in one of the side rooms at 9:00 AM in one of the side rooms, i.e., before the regular Saturday meeting.

At the Wednesday night meeting in September, Dave Harvey pointed out that there is a new magazine, Apple II Review: Can someone give us a review? Thanks!

The Mouse version of Dazzle Draw and Fontrix were the focus of the Wednesday night meeting in September.

It looks as if NOVAPPLE may be treated to Apple Computer VCR tapes of advertisements of the new Apple II_{GS} at its meetings....

Forum is the new monthly publication of NAUG, the National Appleworks Users Group, with Volume 1, No. 1 published in August, 1986. The issue had a 16-page 8 1/2 by 11 format and the table of contents lists:

From the Editor
Letters
Using NAUG to get answers to Appleworks Questions
Using Appleworks as a Programming Tool
Guidelines for Contributors to the NAUG Forum
Printer Primer ("How to configure AppleWorks so it works with custom printers.")
Impact is Impact (Quotable quote: "Sales of [Appleworks] have been at or near the top of the chart for two years.")
Notes from Applelink
Bulletin Board News
Data Base Tips
From the Public Domain (NAUG has a public domain library.)
Member Information (Dues are $24 per year; this issue will be in the paper library.)
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--NoVAC

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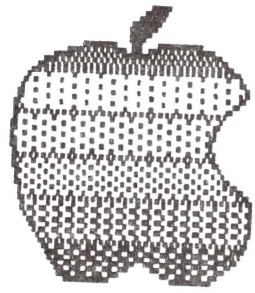

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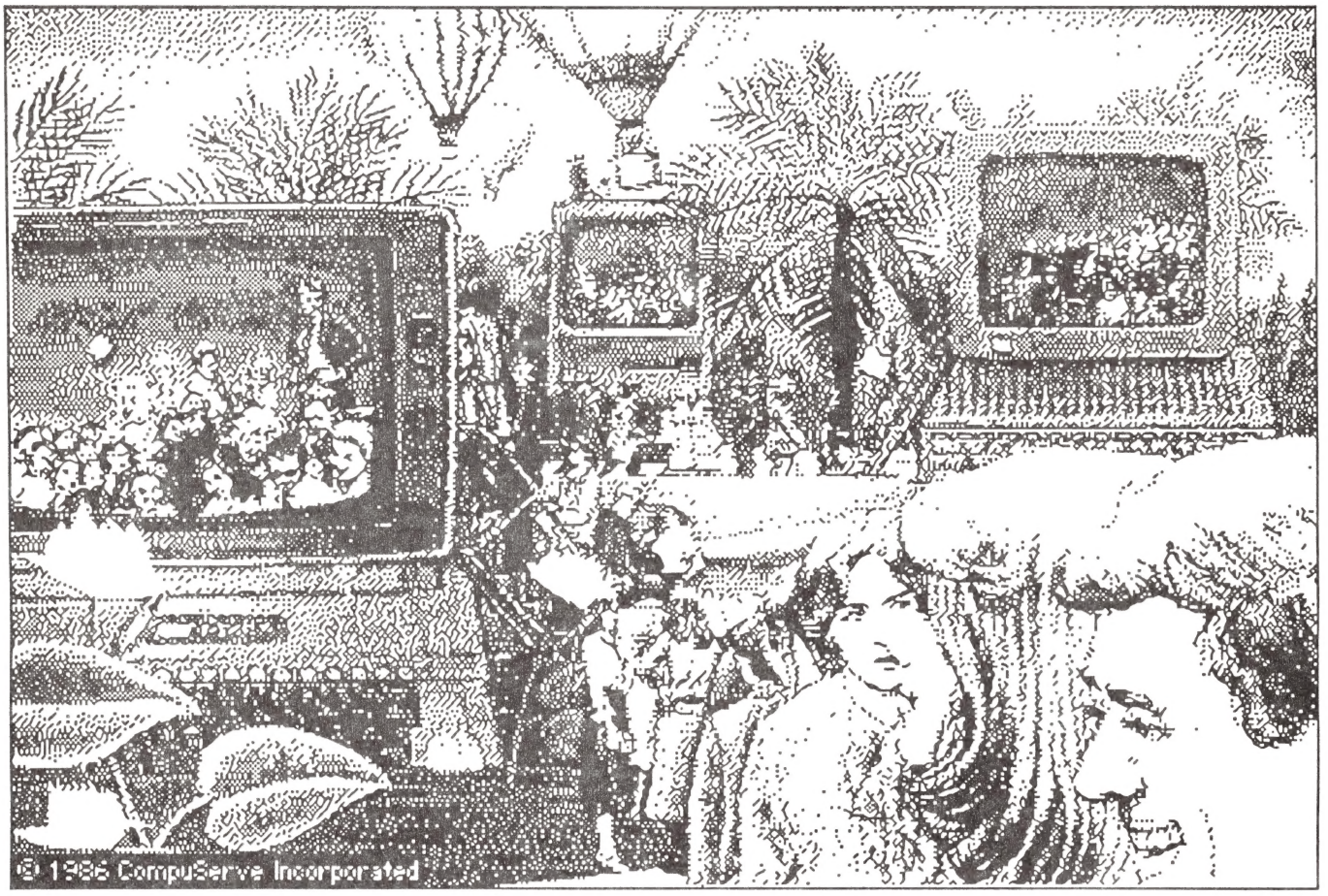

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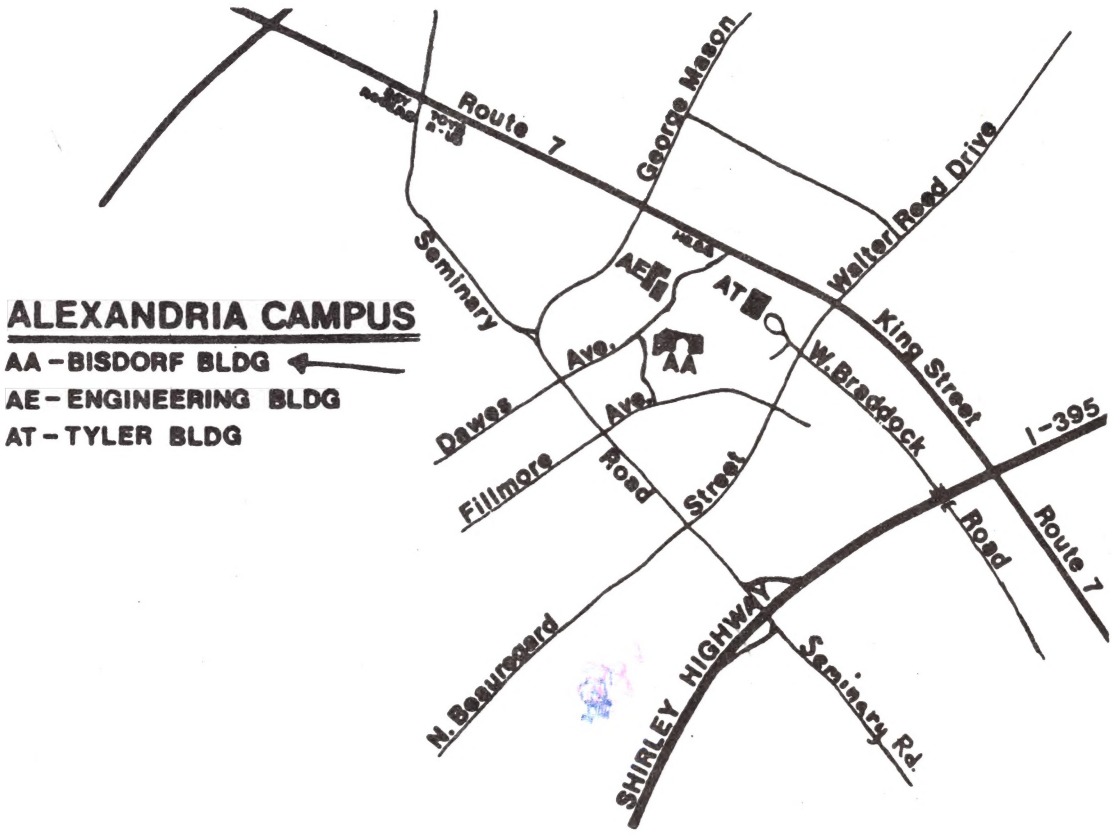

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